

ABSTRACT

In the case where the absolute value of steering angle θ_s is equal to or greater than a prescribed angle, a motion control apparatus 10 for a vehicle sets a control gear ratio n in such a manner that when an estimated vehicle-body speed V_{so} is equal to or greater than a prescribed value, the control gear ratio n becomes a value which is equal to or greater than "20" and which increases with the estimated vehicle-body speed V_{so} as the absolute value of the steering angle θ_s increases, and when the estimated vehicle-body speed V_{so} is less than the prescribed value, the control gear ratio n becomes a value which is not greater than "20" and which decreases with the estimated vehicle-body speed V_{so} as the absolute value of the steering angle θ_s increases. The apparatus then calculates a target yaw rate Y_{rt} by making use of an equation shown in Step 510 and using the control gear ratio n , and controls a braking force applied to each wheel so that the actual yaw rate Y_r coincides with the target yaw rate Y_{rt} .